

0351-EX-ST-1999



6024 SW Jean rd. Bldg. B
Lake Oswego, OR 97035
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FEDERAL COMMUNICATIONS COMMISSION
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

To the Experimental Licensing Branch,

Please accept this letter as application for a Special Temporary Authority (STA) to operate a prototype product in the proposed MICS band. The following information contains the details of this prototype as requested by Part 5.56, and again on the FCC website. If there is any information provided which is incomplete or misunderstood, please call me at (503) 675-2187 and I will happily provide further details.

Name and Address

- Mark A. Johnson
Biotronik, Inc.
6024 SW Jean rd. Bldg. B
Lake Oswego, OR 97035
(503) 675-2187

Need for Special Action

- Prototype demonstration of medical implant communications service (MICS) at the American Heart Association (AHA) conference, the American College of Cardiologists (ACC) conference, and the National Society of Pacing and Electro-physiology (NASPE).

MICS is being proposed as a secondary user within the 400MHz to 406MHz Meteorological Aids Service band (NPRM 99-23). This application for STA would allow assessment of the potential market for such a device.

Type of operation to be conducted

- A demonstration of RF telemetry with a functional breadboard will be shown.

Purpose of Operation

- To prove functionality and assess market interest in such a product.

Times and Dates of Proposed Operation

- November 6th through 10th, 1999 from 7am to 9pm each day (AHA)
- March 10th through 16th, 2000 from 7am to 9pm each day (ACC)
- May 15th through 22nd, 2000 from 7am to 9pm each day (NASPE)
- November 10th through 15th, 2000 from 7am to 9pm each day (AHA)

Class of Station, call sign of Station

- Not applicable. Product is a general mobile communication service with output power not exceeding 25 μ Watts.

Nature of Service

- Transmitter circuit evaluates patient cardiac rhythm, then transmits a 85ms burst of data to a receiver circuit at a distance of 3 meters away.

Location of Proposed Operation

- AHA conference (1999) in Atlanta, GA
- ACC conference (2000) in Anaheim, CA
- NASPE conference (2000) Washington D.C.
- AHA conference (2000) in New Orleans, LA

Equipment to be Used

- Biotronik designed custom transmitter and receiver circuitry will be used.

Frequencies to Be Used

- 402MHz - 405MHz (bandwidth of operation less than 300KHz)

Effective Radiated Power

- Less than 25 μ Watts

Emission Type

- F1 (FSK data at 2Kbits/sec)

Height of Antenna structure

- Less than 6 feet

Thank you for your review of this application, and I look forward to receiving your approval for prototype demonstration of our product in the proposed MICS band.

Sincerely,



9-29-99

Mark Johnson
New Business Development Manager
Biotronik, Inc.